Extra Miles Solutions

UTRACK® SMS Protocol

For MT90

MVT340 / MVT380 / MVT100 / MVT600 / T1 / T3

TC68 / TC68S/ MVT800

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I. Command Format

1. SMS Format

From mobile phone (or SMS modem) to tracker:

Password,<command>,<data>

Note:

Password is 4 digits only and defaulted as 0000

From tracker to mobile phone (or SMS modem):

(1) SMS Get

IMEI,<command>,<data>

(2) Location Report

SMS header,<->yymmddHHMMSS,Z,G,speed, battery power balance, Google map link

Example:Now,110727,02:48,V,16,23Km/h,61%,http://maps.google.com/maps?f=q&hl=en&q=22.540103,114.082329&ie=UTF8&z=16&iwloc=addr&om=1

Description of SMS Data:

Parameter	Description	Example
SMS Header	Type of SMS report, including normal report or kinds of alarm report. Please refer to below: Description of Event Code and SMS Header	Now means real time location report
yymmddHHMMSS	Format YYMMDD hh:mm yy = year mm = month dd = date HH = hour MM = minute SS = second Decimal	110721 16:40 =time: 16:40, 21st July, 2011
Z	GPS status indicator: A = valid, V = invalid	A = Valid
G	GSM signal. Decimal (0~31). the value >16, GPRS will be sent successfully	12 =GSM signal: 12
Speed	Km/h. Decimal.	56

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		=56km/h
Back-up Battery Power Balance	Back-up battery balance(percentage)	97% =battery balance:97%
Google Map WebLink	Google Maps Web Link with Latitude and Longitude which can be clicked and visited directly on mobile phone. If your mobile cannot visit HTTP websites, input the latitude and longitude into Google Maps (maps.google.com)	Now,110727,02:48,V,16,23Km/ h,61%,http://maps.google.com/maps?f=q&hl=en&q=22.540103,114.082329 &ie=UTF8&z=16&iwloc=addr&om=1 lat=22.513015 lng= 114.057235

2. Description of Event Code and SMS Header

Event Code	Event	Default SMS Header (max 16 bytes)	Default GPRS Flag	Default SMS Flag	Default Picture Flag
1	**Input 1 Active (SOS pressed)**	SOS	Y	Y (Only for the first authorized phone number)	Y
2	**Input 2 Active**	In2	Y	N	N
3	**Input 3 Active**	In3	Y	N	N
4	**Input 4 Active**	In4	Y	N	N
5	**Input 5 Active**	In5	Y	N	N
9	**Input 1 Inactive(SOS released)**		N	N	N
10	**Input 2 Inactive**		N	N	N
11	**Input 3 Inactive**		N	N	N
12	**Input 4 Inactive**		N	N	N
13	**Input 5 Inactive**		N	N	N
17	**Low Battery**	Low Battery	N	N	N/A
18	**Low External Power**	Low Power	N	N	N/A
19	**Speeding**	Speeding	Y	Y	N
20	**Enter Geo-fence**	Enter GEO	Y	Y	N
21	**Exit Geo-fence**	Exit GEO	Y	Y	N
22	**External Power On**	Power On	N	N	N
23	**External Power Off**	Power Off	N	N	N/A
24	**No GPS Signal**	No Fix	N	N	N/A
25	**Get GPS Signal**	Fix	N	N	N/A

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26	**Enter Sleep**	Enter Sleep	N	N	N/A
27	**Exit Sleep**	Exit Sleep	N	N	N/A
28	**GPS Antenna Cut**	Antenna Cut	N	N	N
29	**Device Reboot**	Reboot	N	N	N/A
30	**Impact**	Impact	Y	N	N
33	**Distance Interval Report**	Distance	Y	N	N/A
34	**Current Location Report**	Now	A/A	A/A	N/A
35	**Time Interval Report**	Interval	A/A	A/A	N/A
36	**Tow Alarm**	Tow	Y	N	N
65	**Press Input 1 (SOS) to Call**	/	N/A	N	N/A
66	**Press Input 2 to Call**	/	N/A	N	N/A
67	**Press Input 3 to Call**	/	N/A	N	N/A
68	**Press Input 4 to Call**	/	N/A	N	N/A
69	**Press Input 5 to Call**	/	N/A	N	N/A
70	**Reject Incoming Call**	/	N/A	Y	N/A
71	**Report Location after receiving an incomingcall**	/	N/A	Y	N/A
72	**Auto Answer Incoming Call**	/	N/A	N	N/A
73	**Listen-in (voice monitoring)**	/	N/A	N	N/A

Note:

1) Above figures are the factory default settings.

2)**Y** = yes; **N** = no; **N/A** = not applicable or not available; **A/A** = always stay available in all status and cannot be changed.

3) You can use commands to define SMS header, add or delete flag for each function.

II. Command List

Command	Definition	SMS/GPRS	Applicable Model
A00	Track on Demand	SMS	All
A02	Track by Time Interval	SMS	All
A10	Track by Longitude and Latitude	SMS/GPRS	All
A12	Track by Time Interval	GPRS	All
A14	Track by Distance Interval	SMS/GPRS	All
A15	Track Parking by Time Interval	GPRS	MVT100/340/380/600/800/T1/T3
A16	Track Parking by Time Interval on/off	GPRS	MVT100/340/380/600/800/T1/T3
A21	Set GPRS	SMS/GPRS	All
A22	Set DNS Server IP	SMS/GPRS	All
A23	Set Secondary GPRS Server	SMS/GPRS	All
A70	Get all Authorized Phone number	SMS/GPRS	All
A71	Set Multiple Functions Phone Number	SMS/GPRS	All

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A72	Set Listen-in Phone Number	Call	All
A73	Set Sleep Mode	SMS/GPRS	All
B00	Get Authorized Phone Number and SMS Event Flag	SMS/GPRS	All
B01	Authorize Phone Number and SMS Event Flag	SMS/GPRS	All
B02	Add SMS Event Flag to Authorized Phone Number	SMS/GPRS	All
B03	Delete SMS Event Flag from Authorized	SMS/GPRS	All
B05	Set Geo-fence Alarm	SMS/GPRS	All
B06	Delete Geo-fence Waypoint	SMS/GPRS	All
B07	Set Speeding Alarm	SMS/GPRS	All
B08	Set Tow Alarm	SMS/GPRS	MVT100/340/380/600/800/T1/T3/MT90/TC68/TC68S
B09	Set Tremble Sensitivity (MVT100/MVT340/MVT380)	SMS/GPRS	MVT100/340/380/T1/T3
B20	Set Tremble Sensitivity (MVT600)	SMS/GPRS	MVT600
B21	Set Anti-theft	SMS/GPRS	MVT100/340/380/600/800/T1/T3
B31	Set Extended Functions	SMS/GPRS	All
B34	Set Log Interval	SMS/GPRS	MT90/ MVT100/380/600/800/T1/T3/TC68/TC68S
B35	Time Zone Setting(For SMS Report)	SMS/GPRS	All
B36	Time Zone Setting(For GPRS Report)	SMS/GPRS	All
B91	Set SMS Header for Event	SMS/GPRS	All
C01	Output Control	SMS/GPRS	MVT100/340/380/600/800/T1/T3
C03	Protocol Control	SMS/GPRS	All
C04	Set Delivery Mode of GPRS Buffer	GPRS	MT90,MVT100/380/600/800/T1/T3/TC68/TC68S
C11	SMS Message Display	SMS	MVT600/T1/T3
E91	Get Firmware Version and SN	SMS/GPRS	All
F01	Reboot GSM Module	SMS/GPRS	All
F02	Reboot GPS Module	SMS/GPRS	All
F06	Clear Journey and Running Time	SMS/GPRS	All
F08	Set Mileage and Running Time	SMS/GPRS	All
F09	Clear SMS/GPRS Buffer	SMS/GPRS	MT90,MVT100/380/600/800/T1/T3/TC68/TC68S
F11	Initialization	SMS/GPRS	All
F20	Change Password	SMS	All
FAB	Initialize Password	SMS	All

III. Command Details

1. Track on Demand– A00

SMS Set:	0000,A00
SMS Get:	Now,Date&Time,PositionStatus,GSM Signal Level,Speed,BatteryLife,IP link
Description:	Get the current location report of the tracker. Refer to Annex 1 for more information of data description.
Example	
SMS Tx:	0000,A00
SMS Rx:	Now,110721 16:40,V,12,56Km/h,97%,http://maps.meigps.com/?lat=22.513015&lng=114.057235

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2. Track by Time Interval (SMS) – A02

SMS Set:	0000,A02,interval,times
SMS Get:	IMEI,A02,OK
Description:	interval =0, stop tracking by time interval (default); interval = [1,65535], track by interval in minute. times = 0, track by interval continuously; times = [1,255], set how many times an SMS report is received from the tracker with the defined interval.
Example	
SMS Tx:	0000,A02,10,3
SMS Rx:	353358017784062,A02,OK *In this example, you can receive all 1 SMS with an interval of 10 minutes.* Interval,12080918:45,V,16,0Km/h,67%,http://maps.google.com/maps?f=q&hl=en&q=3.342336,0.000500&ie=UTF8&z=16&iwloc=addr&om=1

3. Track by Longitude and Latitude (SMS) —A10

SMS Set:	0000,A10
SMS Get:	Now,,<->Latitude,<-> Longitude,Date and T ime,Status,Quantity of Satellites ,GSM Signal Level,Velocity,Direction,Positioning accuracy,Altitude,Mileage,T ime,,The Status of Input and
Description:	Check thecurrent location, get the data by longitude and latitude. Set A10, if the GPRS works and the parameter is correct, the tracker will upload a location data of the form 34 to the server. It is for the user tracking by SMS.
Example	
SMS Tx:	0000,A10
SMS Rx:	353358017784062,Now,22.535888,114.063034,080310161834,A,9,27,30,179,0,15,8890,1346,,0000,,

4. Track by Time Interval (SMS) – A12

SMS Set:	0000,A12,interval,times
SMS Get:	IMEI,A12,OK
Description:	Interval is in unit of 10 seconds. Interval = 0, stop tracking by time interval. Max time interval = 65535*10 seconds times = 0, track by interval continuously; times = [1,65535], set how many times(reports) from the tracker with the specified interval.

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Example	
SMS Tx:	0000,A12,6,0
SMS Rx:	353358017784062,A12,OK

5. Track by Distance Interval – A14

SMS Set:	0000,A14,distance
SMS Get:	IMEI,A14,OK
Description:	Distance = 0, stop tracking by distance interval (default); Distance = [1, 4294967295], set interval in meter. If Track by Distance Interval and Track by Time Interval are both set, the GPS location report complies with 'First Reach First Report' rule, and the interval for next report is immediately re-calculated.
Example	
SMS Tx:	0000,A14,1000
SMS Rx:	353358017784062,A14,OK *In this example, the below message will be received once distance changes over 1000 meters.* *353358017784062,Distance,22.547278,114.047723,080310080934,A,7,21,30,88,1,12,8525,563,,0000,,*

6. Track Parking by Time Interval (SMS)—A15

SMS Set:	0000,A15,Interval,Times
SMS Get:	IMEI,A15,OK
Description:	This command is used for vehicle GPS tracker. Set the time interval, it is better reduce the times of sending GPRS data, to save GPRS rate. After setting A15, A16 will be set automatically. For more details of the engines status (on/off), please refer to A16command as following. Interval is in unit of 10 seconds. Interval = 0, stop tracking by time interval. Max time interval = 65535*10 seconds Times = 0, track by interval continuously (It is used for platform tracking, suggest setting as 0) Times = [1,65535], set how many times reports will be received from the tracker within the specified time interval.
Example	
SMS Tx:	0000,A15,6,0
SMS Rx:	353358017784062,A15,OK

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7. Track Parking by Time Interval on/off(SMS) – A16

SMS Set:	0000, A16,Status
SMS Get:	IMEI,A16,OK
Description:	This command is used for vehicle GPS tracker. The first positive input (HIGH) of vehicle tracker should connect engine detection, or the function cannot work. The following are the first positive input of different vehicle tracker: Model First Positive Input MVT100 Input 2 MVT340 Input 2 MVT380 Input 4 MVT600 Input 3 T1 Input 3 T3 Input 3 Status = 1,track parking by time interval works; the GPRS data will be sent by the time interval as below : Engine On : GPRS data will be sent by the time interval of A12 Engine Off: GPRS data will be sent by the time interval of A15 Status = 0,track parking by time interval close; the GPRS data will be sent by the time interval as below : Engine On : GPRS data will be sent by the time interval of A12 Engine Off: GPRS data will be sent by the time interval of A12
Example	
SMS Tx:	0000,A16,0
SMS Rx:	353358017784062,A16,OK

8. Set GPRS – A21

SMS Set:	0000,A21,X,IP,Port,APN,APNusername,APN password
SMS Get:	IMEI,A21,OK
Description:	X = 0, close GPRS; X = 1, open TCP; X = 2, open UDP. IP : IP address or domain name, max 32 bytes. Port: max 5 bytes. APN / APN username / APN password: max 32 bytes each; If no username and password required, leave them blank.

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Example	
SMS Tx:	0000,A21,1,www.meigps.com,8500,CMNET,,
SMS Rx:	353358017784062,A21,OK

9. Set DNS Server IP – A22

SMS Set:	0000,A22,DNS Server IP
SMS Get:	IMEI,A22,OK
Description:	Your servers IP is not properly set if the command A21 doesn't work. You can first use this command to set DNS Server IP (please check with your DNS server provider for the DNS Server IP) and then redo command A21. DNS Server IP: max 16 bytes
Example	
SMS Tx:	0000,A22,202.1.2.30
SMS Rx:	353358017784062,A22,OK

10. Set Secondary GPRS Server – A23

SMS Set:	0000,A23,IP,port
SMS Get:	IMEI,A23,OK
Description:	IP : max 32 bytes. Port: max 5 bytes. When the tracker fails to send data to the first server set by command A21, it will send data to the secondary server to avoid data loss.
Example	
SMS Tx:	0000,A23,112.91.12.222,8500
SMS Rx:	353358017784062,A23,OK

11. Get all Authorized Phone Numbers– A70

SMS Set:	0000,A70
SMS Get:	IMEI,A70,SOS phone number 1,SOS phone number 2,SOS phone number 3,listen-in phone number 1,listen-in phone number 2
Description:	Get all authorized phone number.
Example	
SMS Tx:	0000,A70
SMS Rx:	353358017784062,A70,13811111111,13822222222,13833333333,13844444444,13855555555

12. AuthorizeMultiple Functions Phone Number– A71

SMS Set:	0000,A71,phone number 1,phone number 2,phone number 3
SMS Get:	IMEI,A71,OK
Description:	Authorize a phone number for SOS alarm, calling for location report, geo-fence alarm, and low

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	battery alarm. Phone Number: Max 16 characters. If no preset phone number, it is empty (default). Send command “0000, A71” to delete all phone numbers. When you press theSOS button, the tracker will make a call to phone number 1, 2 and 3. It will stop calling when one number answers.
Example	
SMS Tx:	0000,A71,13811111111,13822222222,13833333333
SMS Rx:	353358017784062,A70,OK

13. Set Listen-in (Voice Monitoring)– A72

SMS Set:	0000,A72,phone number 1,phone number 2
SMS Get:	IMEI,A72,OK
Description:	Authorize a phone number to make a silent call to the tracker.The tracker willanswer the call automatically which allows the caller to listen to what is happening around the tracker. There is no voice indication that the call is in progress. Phone Number: Max 2, 16 characters. If no preset phone number, it is empty (default). If no phone number but comma, the relevant number will be deleted. Send command “0000, A72” to delete all phone numbers.
Example	
SMS Tx:	0000,A72,13844444444,13855555555
SMS Rx:	353358017784062,A72,OK

14. Set Sleep Mode – A73

SMS Set:	0000,A73,X
SMS Get:	IMEI,A73,OK
Description:	This setting is for power saving mode X=0, turn off sleep mode (default) X=1, normal sleep. GSM module work, GPS module work by sleep mode intermittently. The device can work 25% longer than no sleep mode. Note: this is not recommended for users who set “track by interval” or short time interval, because it will affect the completeness of tracking. X=2, deep sleep, the tracker will enter this mode after it is inactive or stationary(No SOS/any triggered by the button/input/incoming calls/message/movement) for 5 minutes. GPS module stops working and GSM module enters sleep mode. The tracker remains in this mode until it is activated by SOS/any triggered by the button/input/incoming calls/message/movement. After that, it will repeat above processes. Note: MT90 can enter sleep mode under movement , and movement can't wake MT90 from

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	sleep mode. In any condition, the device will directly quit the sleep mode and back to normal working mode by SMS or GPRS command to turn off the sleep mode.
Example	
SMS Tx:	0000,A73,2
SMS Rx:	353358017784062,A73,OK

15. Get Authorized Phone Number and SMS Event Flag – B00

Why is this section blue?

SMS Set:	0000,B00,P
SMS Get:	IMEI,B00,P,phone No,event code flag
Description:	P: 1 to 3 Phone No: max 16 characters. If Phone No is blank, no phone number is authorized. Event Code Flag: 16+8 bytes, HEX String. See Annex 2 for more details.
Example	
SMS Tx:	0000,B00,1
SMS Rx:	353358017784062,B00,1,13612345678,0000000000000F0A00000000

16. Authorize Phone Number and SMS Event Flag – B01

SMS Set:	0000,B01,P,phone No,eventcode
SMS Get:	IMEI,B01,OK
Description:	P: 1 to 3. Phone No: max 16 characters. Event Code: If no codes stipulated, then it will apply the default flags to the authorized phone number. See Annex 2 for more details of Event Code and default settings.
Example	
SMS Tx:	0000,B01,1,13612345678,1
SMS Rx:	353358017784062,B01,OK

17. Add SMS Event Flag to Authorized Phone Number – B02

SMS Set:	0000,B02,P,event code
SMS Get:	IMEI,B02,OK
Description:	P : 1 to 3. Event Code: please refer to Annex 2 for more details.
Example	
SMS Tx:	0000,B02,1,17
SMS Rx:	353358017784062,B02,OK

18. Delete SMS Event Flag from Authorized Phone Number – B03

SMS Set:	0000,B03,P,event code

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SMS Get:	IMEI,B03,OK
Description:	P : 1 to 3. Event Code: please refer to Annex 2 for more details.
Example	
SMS Tx:	0000,B03,1,17
SMS Rx:	353358017784062,B03,OK

19. Set Geo-fence Alarm – B05

SMS Set:	0000,B05,P,latitude,longitude,radius,in,out
SMS Get:	IMEI,B05,OK
Description:	P: 1 to 8. Max 8 Geo-fence waypoints can be set. Latitude: Latitude in decimal degrees of the waypoint center; Accurate to 6 digits after the decimal point, add 0 if less than 6 digits, or command will be rejected. Longitude: Longitude in decimal degrees of the waypoint center; Accurate to 6 digits after the decimal point, add 0 if less than 6 digits, or command will be rejected. Radius: [1,4294967295] in meters. In = 0, turn off the alarm when the tracker enters the waypoint; In = 1, turn on the alarm when the tracker enters the waypoint. Out = 0, turn off the alarm when the tracker exits the waypoint; Out = 1, turn on the alarm when the tracker exits the waypoint.
Example	
SMS Tx:	0000,B05,1, 22.913191,114.079882,1000,0,1
SMS Rx:	353358017784062,B05,OK *Once the tracker goes outside of the circle, (center:* 22.913191,114.079882*and radius 1000 meters) the following message will be received.* *353358017784062,ExitGEO,22.918186,114.089823,080229123816,A,10,22,16,32,1,21,6667,850,,0000,,*

20. Delete Geo-fence Waypoint – B06

SMS Set:	0000,B06,P
SMS Get:	IMEI,B06,OK
Description:	P: 1 to 8. Only one waypoint can be deleted by each SMScommand.
Example	
SMS Tx:	0000,B06,1
SMS Rx:	353358017784062,B06,OK

21. Set Speeding Alarm – B07

SMS Set:	0000,B07,speed
SMS Get:	IMEI,B07,OK

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Description:	speed = 0, cancel speeding alarm (default); Speed = [1,255], set speed limit in Km/h.
Example	
SMS Tx:	0000,B07,60
SMS Rx:	353358017784062,B07,OK *In this example, the following message will be received once the tracker 's speed is over 60km/h.* *353358017784062,Speeding,22.914891,114.087491,080229203703,A,10,22,55,44,1,24,6635,388,0000*

22. Set Tow Alarm – B08

SMS Set:	0000,B08,time
SMS Get:	IMEI,B08,OK
Description:	When the tracker moves or trembles over preset time, it will send a report to the authorized phone number. The sleep mode should be preset as level 2 through command A73 and the value of "Tremble Time"be set through command B08 before using the tow alarm, otherwise the alarm set doesn't work. time = 0, cancel tow alarm (default); time = [1,255], set period in second.
Example	
SMS Tx:	0000,B08,3
SMS Rx:	353358017784062,B08,OK *In this example, when the tracker moves or trembles for over 3 seconds, the following message will be received.* *353358017784062,Tow,22.914891,114.087491,080229203703,A,10,22,55,44,1,24,6635,388,,0000,,*

23. Set Tremble Sensitivity (MVT100/MVT340/MVT380/T1/T3) – B09

SMS Set:	0000,B09,sensitivity
SMS Get:	IMEI,B09,OK
Description:	Sensitivity = [1,65535], set sensitivitygrade for tremble sensor. The tremble sensor is more sensitive if the grade is lower. Defaulted as 1.
Example	
SMS Tx:	0000,B09,10
SMS Rx:	353358017784062,B09,OK

24. Set TrembleSensitivity (MVT600) – B20

SMS Set:	0000,B20,sensitivity

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SMS Get:	IMEI,B20,OK
Description:	Sensitivity= [1,65535], set sensitivitygrade for tremble sensor. The tremble sensor is more sensitive if the grade is lower. The default value is 5.
Example	
SMS Tx:	0000,B20,10
SMS Rx:	353358017784062,B20,OK

25. Set Anti-theft – B21

GPRS Set	B21,Status
GPRS Get	B21, OK
Description:	Status =1, set anti-theft successfully (default); The device of MVT series will alarm when the first negative input and the first positive input are active except SOS. Status = 0, cancel anti-theft; The device of MVT series will not alarm when the first negative input and the first positive input are active except SOS. Note: this function is only applied in vehicles trackers of MVT series. The relations between inputs are as follows:

Model	Negative Input	Positive Input
MVT100	-	Input 2
MVT340	-	Input 2
MVT380	Input 2	Input 4
MVT600	Input 2	Input 3
T1/T3	Input 2	Input 3

Example	
GPRS Tx:	0000,B21,1
GPRS Rx:	353358017784062,B21,OK

26. Set Extended Functions – B31

SMS Set:	0000,B31,AB
SMS Get:	IMEI,B31,OK
Description:	A=0, all LED lights work normally (default); A=1, all LED lights are off when the tracker is working; B, reserved.
Example	
SMS Tx:	0000,B31,11
SMS Rx:	353358017784062,B31,OK

27. Set Log Interval –B34

SMS Set:	0000,B34,interval

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SMS Get:	IMEI,B34,OK
Description:	Set the interval for storing valid GPS data into tracker's flash memory. interval = 0, turn off logging (default); interval = [1,65535], set logging interval in second.
Example	
SMS Tx:	0000,B34,60
SMS Rx:	353358017784062,B34,OK

28. Time Zone Setting (for SMS Report) – B35

SMS Set:	0000,B35,minute
SMS Get:	B35,OK
Description:	Default time of the tracker is GMT, you can use this command to correctthe trackers time to your local time for SMS report. minute = 0, GMT (default); minute = [-32768,32767], set time difference in minutes to GMT. T ime zone for SMS is separate from GPRS.
Example	
SMS Tx:	0000,B35,480
SMS Rx:	353358017784062,B35,OK

29. Time Zone Setting (for GPRS Report) – B36

SMS Set:	0000,B36,GPRS minute
SMS Get:	IMEI,B36,OK
Description:	minute = 0, GMT (default);Note: MS02 will automatically recognize the user's time zone from computer system. Please don't change GPRS time zone, and remain the device's default GPRS time zone as 0. If changed, it may occur discrepancy between the tracking time and the actual time. minute = [-32768,32767], set time difference in minutes to GMT.
Example	
SMS Tx:	0000,B36,480
SMS Rx:	353358017784062,B36,OK

30. Set SMS Header for Event – B91

SMS Set:	0000,B91,even code,header
SMS Get:	IMEI,B91,OK
Description:	Header: max 16 bytes. Please refer to Annex 2 for more details.
Example	
SMS Tx:	0000,B91,1,SOS
SMS Rx:	353358017784062,B91,OK

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31. Output Control – C01

SMS Set:	0000,C01,speed,ABCDE
SMS Get:	IMEI,C01,OK
Description:	Speed = 0, no speed limit; Speed = [1,255], in km/h, set conditional speed limit for output control. When speed is below the set speed, output is activated. A=0, close output (OUT1) -open drain; A=1, open output (OUT1) -connect to GND; A=2, remain previous status. B=0, close output (OUT2) -open drain;; B=1, open output (OUT2) -connect to GND B=2, remain previous status. C=0, close output (OUT3) -open drain; C=1, open output (OUT3) -connect to GND; C=2, remain previous status. D=0, close output (OUT4) -open drain; D=1, open output (OUT4) -connect to GND; D=2, remain previous status. E=0, close output (OUT5) -open drain; E=1, open output (OUT5) -connect to GND; E=2, remain previous status.
Example	
SMS Tx:	0000,C01,20,12221
SMS Rx:	353358017784062,C01,OK

32. Protocol Control – C03

SMS Set:	0000,C03,X
SMS Get:	IMEI,C03,OK
Description:	X = 0, Auto Event Report (default); X = 1, Event report needs server's confirmation by AFF command.
Example	
SMS Tx:	0000,C03,0
SMS Rx:	353358017784062,C03,OK

33. Set Delivery Mode of GPRS Buffer– C04

SMS Set:	0000,C04,X
SMS Get:	IMEI,C04,OK
Description:	X = 0, FIFO First In, First Out (Default), data is stored by queue. X = 1, FILO First In, Last Out, data is stored by stack.
Example	

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SMS Tx:	0000,C04,1
SMS Rx:	353358017784062,C04,OK

34. SMS Message Display– C11

SMS Set:	0000,C11,Txt
SMS Get:	IMEI,C11,OK
Description:	Message from the mobile phone will display on LCD. Txt: Message content. Must be ASCII String, Max 150 Bytes.
Example	
SMS Tx:	0000,C11,SMS Message
SMS Rx:	353358017784062,C11,OK

35. Get Firmware Version and SN – E91

SMS Set:	0000,E91
SMS Get:	IMEI,E91,version,SN
Description:	Get current firmware version and S/N details of the tracker.
Example	
SMS Tx:	0000,E91
SMS Rx:	353358017784062,E91,FWV1.00,12345678

36. Reboot GSM Module – F01

SMS Set:	0000,F01
SMS Get:	IMEI,F01,OK
Description:	Reboot GSM module.
Example	
SMS Tx:	0000,F01
SMS Rx:	353358017784062,F01,OK

37. Reboot GPS Module – F02

SMS Set:	0000,F02
SMS Get:	IMEI,F02,OK
Description:	Reboot GPS module.
Example	
SMS Tx:	0000,F02
SMS Rx:	353358017784062,F02,OK

38. Clear Journey and Running Time – F06

SMS Set:	0000,F06,X
SMS Get:	IMEI,F06,OK
Description:	Clear Journey and Running Time.

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	X=1, clear journey X=2, clear running time X=3, clear journey and running time
Example	
SMS Tx:	0000,F06,1
SMS Rx:	353358017784062,F06,OK

39. Set Mileage and Running Time - F08

SMS Set	F08, Running Time, Mileage
SMS Get	F08,OK
Description:	Running Time：[0, 4294967295]，decimalism format, units in meters，null won't be set. Mileage：[0, 4294967295]，decimalism format, units in meters，null won't be set.
Example	
SMSTx:	@@D40,353358017784062,F08,0,4825000*51\r\n
SMS Rx:	$$D28,353358017784062,F08,OK*FA\r\n

40. Delete SMS/GPRS Buffer – F09

SMS Set:	0000,F09,X
SMS Get:	IMEI,F09,OK
Description:	X=1， delete SMS buffer X=2， delete GPRS buffer X=3， delete SMS and GPRS buffer
Example	
SMS Tx:	0000,F09,1
SMS Rx:	353358017784062,F09,OK

41. Initialization– F11

SMS Set:	0000,F11
SMS Get:	IMEI,F11,OK
Description:	Set all parameters, except for the password, back to factory default.
Example	
SMS Tx:	0000,F11
SMS Rx:	353358017784062,F11,OK

42. Change Password – F20

SMS Set:	0000,F20,new password
SMS Get:	IMEI,F20,OK
Description:	Change SMS password. Password is 4 digits.
Example	
SMS Tx:	0000,F20,1234

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SMS Rx:	353358017784062,F20,OK

43. Initialize Password – FAB

SMS Set:	8888,FAB
SMS Get:	IMEI,FAB,OK
Description:	Set the password back to factory default in case you forget your password. Only authorized phone number(s) can send this command.
Example	
SMS Tx:	8888,FAB
SMS Rx:	353358017784062,FAB,OK

If you have any questions, please send e-mail to support@extramiles.asia. We are here to help you.

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